



*Service Manual for
LT32HV & LT37HVE Models Ver. 1*



"WARNING: This document contains confidential information, intended only for you, and is privileged. This information is current and is subject to change. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or any other use of this document is strictly prohibited. If you have received this document by error, please notify us immediately by return email and destroy the original document immediately and all copies thereof."

Index

| | |
|---|------------------|
| <u><i>Getting Started</i></u> | <u><i>2</i></u> |
| <u><i>Models</i></u> | <u><i>3</i></u> |
| <u><i>Preperation</i></u> | <u><i>4</i></u> |
| <u><i>Part Replacment</i></u> | <u><i>5</i></u> |
| <u><i>Stand Removal/Replacment</i></u> | <u><i>6</i></u> |
| <u><i>AV Module Removal/Replacment</i></u> | <u><i>7</i></u> |
| <u><i>Right Side AV InputRemoval/Replacment</i></u> | <u><i>8</i></u> |
| <u><i>TV Tuner Removal/Replacment</i></u> | <u><i>9</i></u> |
| <u><i>Removing Back Housing</i></u> | <u><i>10</i></u> |
| <u><i>Exposed Back</i></u> | <u><i>12</i></u> |
| <u><i>Replacing AV Light</i></u> | <u><i>13</i></u> |
| <u><i>Replacing front IR/Keypad Board</i></u> | <u><i>14</i></u> |
| <u><i>Replacing front Olevia LED light</i></u> | <u><i>15</i></u> |
| <u><i>Exposing Mainboard for service or replacement</i></u> | <u><i>16</i></u> |
| <u><i>Replacing Left/Right Speakers</i></u> | <u><i>19</i></u> |
| <u><i>Replacing Power Supply</i></u> | <u><i>21</i></u> |

Getting Started

Tools Required –

- *Magnetic Philips Head Screw Driver*
- *3/16” Nut Driver*
- *Small Flat Head Screw Driver*
- *ESD Strap or equivalent*
- *Soft Terry Cloth towel*
- *Service Manual Instructions*

Recommended Tool – Power Screw Driver

Safety Precautions –

- *Read safety precautions thoroughly*
- *Keep the display away from high humidity*
- *Lay the display on a reliable flat surface with the stand overhanging the edge before replacing parts*
- *Avoid spilling any liquid substances into the unit as it may cause damage or electrical shock*
- *Do not leave this display unit with a storage temp. above 140 degrees Fahrenheit (60 degrees Celsius), it may damage the unit*
- *Unplug the power from the unit before performing any type of part replacement*
- *Do not attempt to move or position the display unless you are confident that you are able to successfully. Avoiding this caution may result in bodily harm or damage to the unit.*

Models



LT32HV



LT37HVE

***Note:** The service instructions are applicable for both of these models as they share identical components.*

Preparation

Important!

PLEASE PLACE LCDTV FACE DOWN ON NON-ABRASIVE SURFACE.

Each Procedure is individually tailored for the component you are replacing. Many components may be removed without removing everything else, read each procedure carefully. All the procedures are aided with actual photos of the components to help guide you.

It is recommended to place the display on a flat elevated surface. This surface may be a clean and sturdy dining room table, a desk or a bed. If the customer feels comfortable with you servicing the display on the bed then it is recommended to do so as most beds are usually soft and non-abrasive.

Depending on the part you will be replacing, estimated time should be anywhere between 10-40 minutes. If you require advanced assistance you may contact Technical Support (Mon-Fri, 9-6 PST). If support is required before this specified time you may contact Product Development from your provided contact list.

Part Replacement

The following parts are the ones that you may have to replace so please make sure you are properly prepared.

Parts –

- *Stand*
- *AV Module*
- *Right Side AV Input*
- *Tuner Module*
- *Rear Housing*
- *IR/Keypad Board*
- *Mainboard*
- *Power Supply*
- *AV Light*
- *Speakers*
- *Olevia Front Blue LED light*

Stand Removal/Replacment



- 1. Unscrew the four silver screws from the stand. Follow the opposite to mount the stand back to the display.*

AV Module Removal/Replacement



Removed

- 1. Unscrew the two (2) screws that secure the AV module to the chassis.*
- 2. Gently pull the AV module from the RCA jacks. You may have to rock the module back and forth to successfully free it and pull it out.*

To re-insert the AV module slide in the casing and push gently until you feel the module make contact with the mainboard.

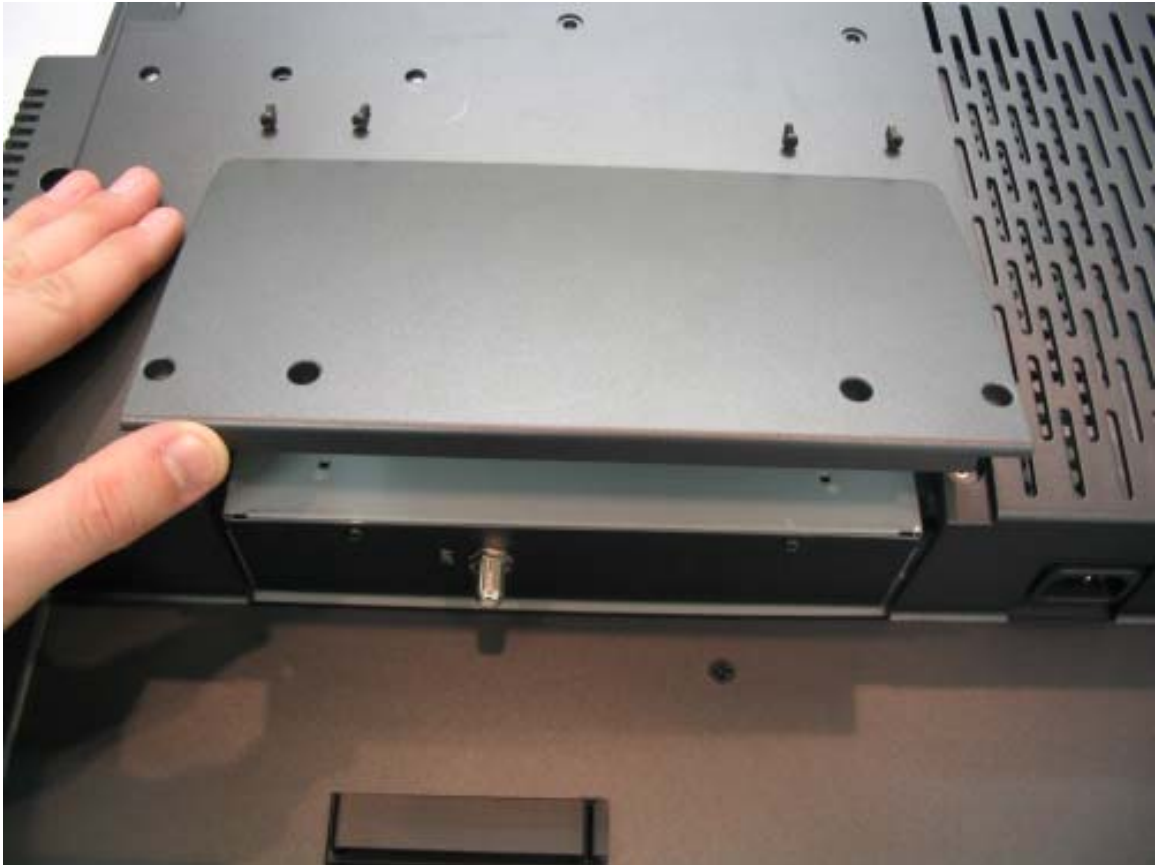
Right Side AV Input Removal/Replacment



1. Unscrew the two (2) screws that secure the side AV input and pull out the screws.
2. Pull out the AV input and using a small flat head screwdriver pry off the wire harness to the circuit board.

Follow steps in reverse to re-insert the side AV input.

TV Tuner Removal/Replacement



With Cover

- 1. Starting with the two (2) inner screws, unscrew all four (4) that secure the Tuner module to the plastic cover.*
- 2. Remove the plastic tuner cover and gently slide out the Tuner module.*

To re-insert the Tuner module slide in the casing and push gently until you feel the module make contact with the mainboard.

Removing Back Housing



Fully Assembled

- 1. Follow the above instructions of removing the Stand, both the AV Module and Tuner modules and the side AV input.*
- 2. Once you have removed the above components go around the edge of the housing looking for the indication arrows of which screws to remove. The arrows will look like this...*



3. *Remove ten (10) screws from these indicated locations.*
4. *There are two (2) other screws located by the AV and Tuner Modules that have to be removed.*



5. *With all twelve (12) screws removed pull up on the back cover to remove.*

Exposed Back

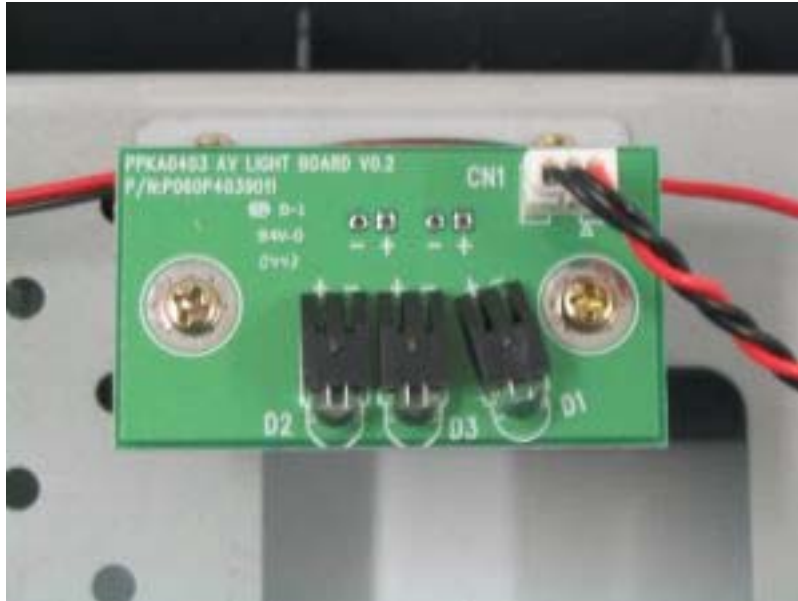


W/ Stand/Wall mount bracket over the mainboard

Exposed you will find that the left and right speakers, the power supply, the mainboard, the IR pad and the AV light are easily accessible.

Make note that in order to access the mainboard you must remove the stand/wallmount bracket by removing the five (5) screws that secure it to the panel chassis. It's also important that when re-mounting the stand/wallmount bracket to make sure it is securely tightened since all the weight of the display rests by this piece of metal.

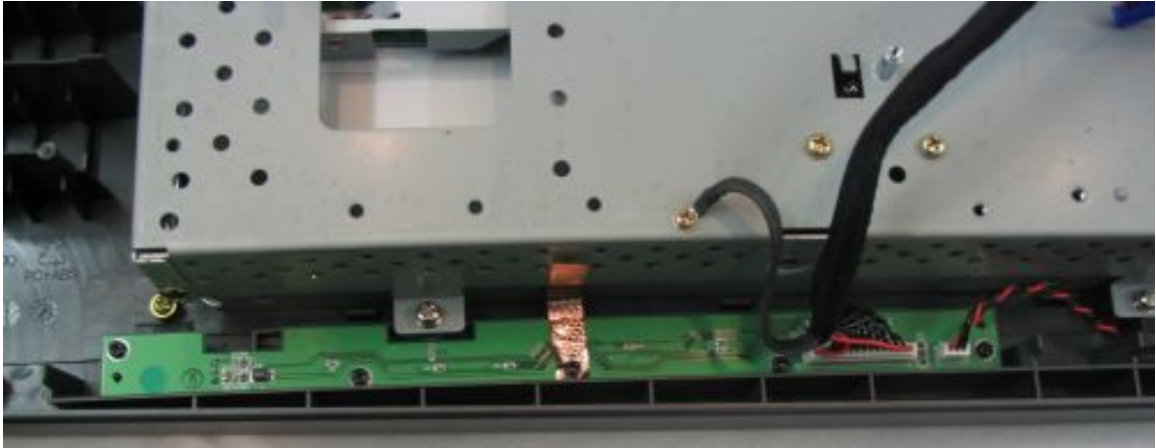
Replacing AV Light



- 1. Follow the above instructions of removing the Stand, the AV and Tuner Modules, the side AV inputs and the back cover.*
- 2. Remove the red and black colored wire from the circuit board.*
- 3. Unscrew the two (2) screws on each side of the circuit board and pull out the AV light.*

Repeat steps in reverse order to place the replacement AV light and assemble the unit.

Replacing front IR/Keypad board



- 1. Follow the above instructions of removing the Stand, the AV and Tuner Modules, the side AV inputs and the back cover.*
- 2. Remove the two (2) wiring harnesses that are connected to the IR/Keypad circuit board.*
- 3. Unscrew the five (5) screws that secure the IR/Keypad to the front bezel.*

Repeat steps in reverse order to place the replacement IR/Keypad and reassemble the unit.

Replacing front Olevia LED light

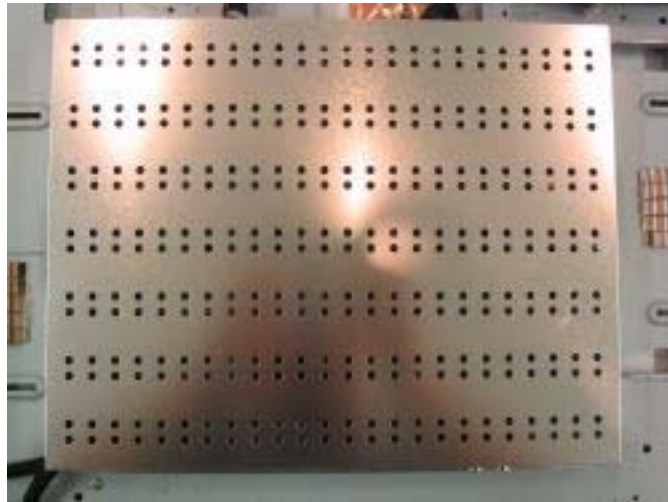


Brown circuit board is the Olevia LED Light

- 1. Follow the above instructions of removing the Stand, the AV and Tuner Modules, the side AV inputs and the back cover.*
- 2. Remove the one (1) red and black wiring harness.*
- 3. Unscrew the two (2) screws securing the Olevia LED board. You should then be able to slide out the Olevia LED board and position the replacement.*

Repeat steps in reverse order to place the replacement front Olevia LED Light board and assemble the unit.

Exposing Mainboard for service or replacement



You will have to expose the mainboard to replace the speakers, wiring harnesses or if the mainboard itself is defective.

- 1. Follow the above instructions of removing the Stand, the AV and Tuner Modules, the side AV inputs and the back cover.*

Note: *You will also have to remove the stand/wallmount bracket in order to gain access to the mainboard cover.*

- 2. Remove the six (6) mainboard cover screws that surround the cover.*
- 3. Push down (towards you) on the cover then start lifting it off the chassis. You will have to pull the edges of the cover where the modules connect to the mainboard in order to clear the mainboard. You may also require pulling apart the lower left corner to pull the wiring harness through. The mainboard should now be exposed.*

Removing/Replacing mainboard

- 1. First follow above steps.*
- 2. Carefully pull off all wiring harnesses from the mainboard to all surrounding components. Take extra precaution when removing the signal wire that is coming from the panel to the mainboard as it very fragile.*

Note: *Do not remove the signal wire from the Panel (inverter board) itself.*



Signal wire W/ ground from panel

- 3. Remove the six (6) screws that secure the mainboard down to the panel chassis (starting with the ones with the ground wires).*
- 4. Lift the mainboard out and replace with the new mainboard.*

Repeat steps in reverse order to place the new mainboard on the Panel chassis and reassemble the unit.

Replacing Left/Right Speakers



Right Speaker (sideways view)



Left Speaker (sideway view)

1. Follow the above instructions of removing the Stand, the AV and Tuner Modules, the side AV inputs and the back cover.

***Note:** You will also have to remove the stand/wallmount bracket in order to gain access to the mainboard cover.*

***Note:** You will also be required to remove the mainboard cover to gain access to the mainboard itself.*

2. Open the following couplers using a small flat head screwdriver.



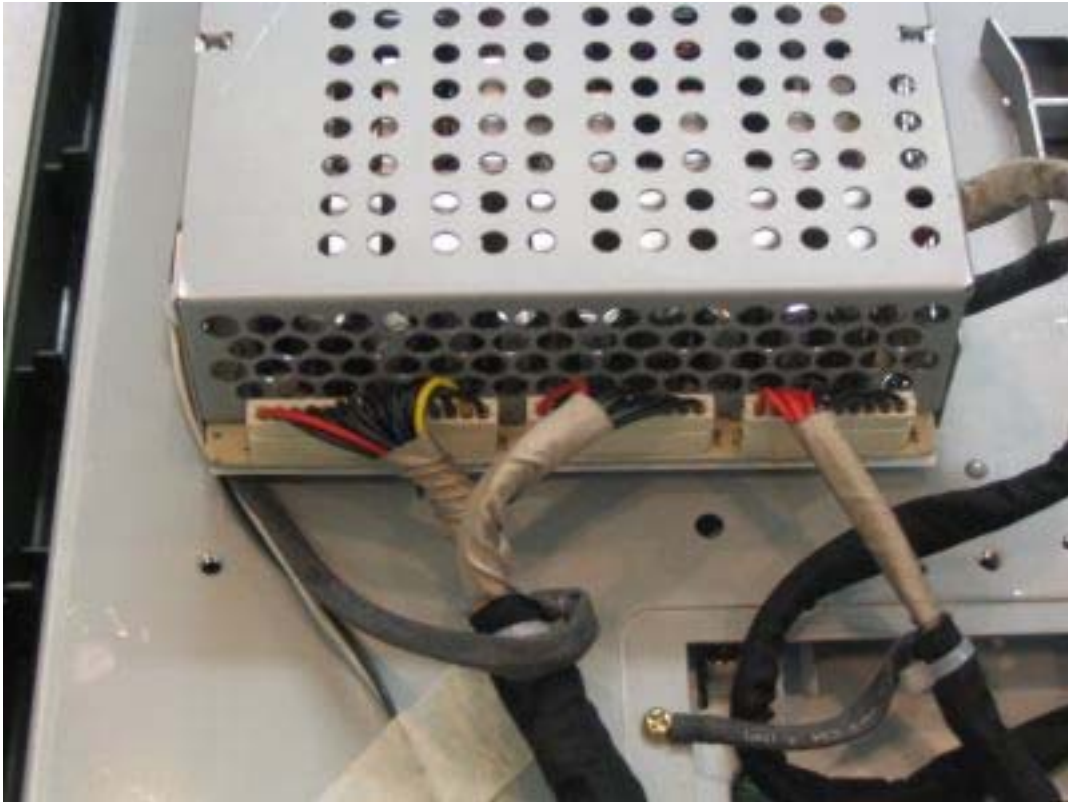
3. From the mainboard disconnect the speaker wire harness for the speaker you are replacing.

4. Unscrew the four (4) screws that secure the speaker to the front bezel. Two on top and two on bottom.

5. Lift out the speaker and replace with the new speaker.

Repeat steps in reverse order to replace the speaker and reassemble the unit.

Replacing Power Supply



- 1. Follow the above instructions of removing the Stand, the AV and Tuner Modules, the side AV inputs and the back cover.*
- 2. Disconnect the three (3) wiring harnesses that are exposed on the outside of the power supply.*
- 3. There are six (6) screws that have to be removed to get the cover off the power supply to access the forth wiring harness. Review the following pictures to learn their locations.*



Two (2) screws at lower left and upper right

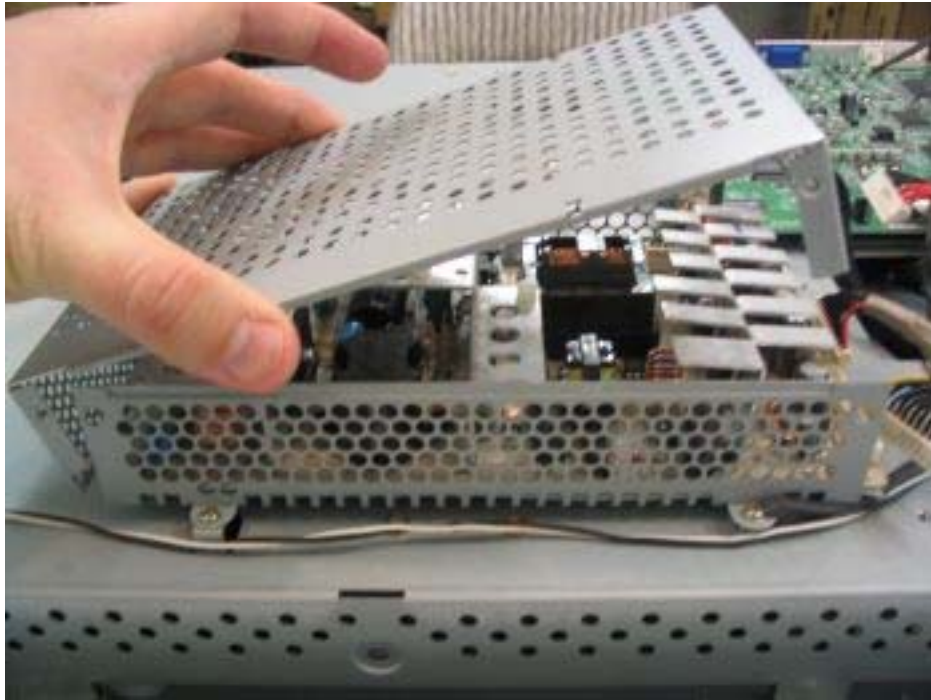


These two (2) screws

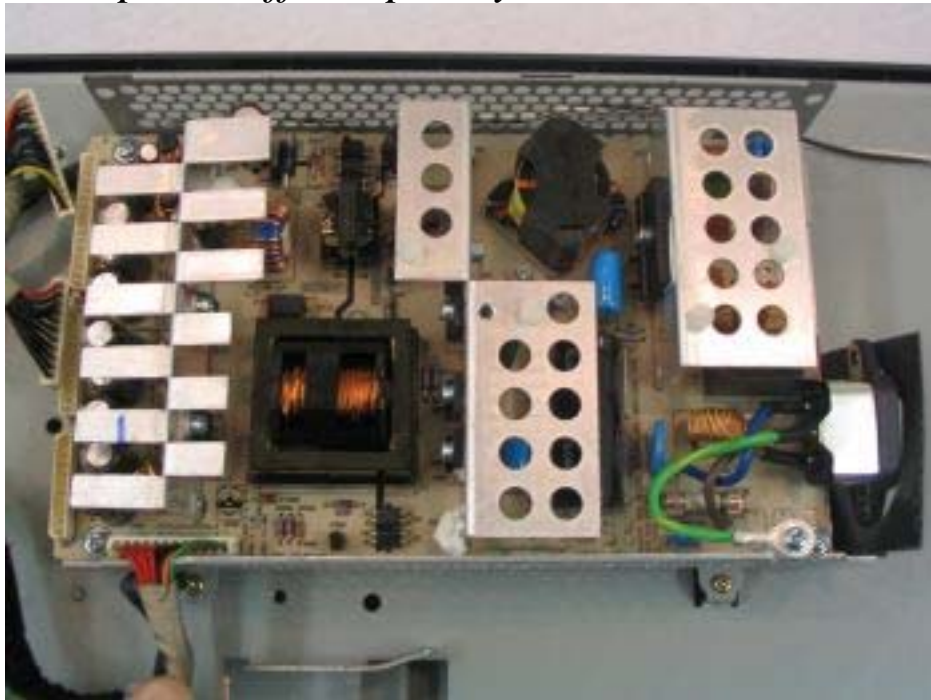


Two (2) screws at upper left and right corners

4. Once you have removed the six (6) screws from the cover of the power supply you may now pull up and back towards the power inlet to pull off the power supply cover. The fourth wiring harness should be accessible.



***Note:** There are two (2) small notches on the bottom side of the power supply cover. You will have to either rock the cover side to side or pry it out gently while moving it up and down to pull it off completely.*



5. Disconnect the wiring harness from the lower left side of the power supply as shown in the above picture.

6. Remove the four (4) screws that secure the lower power supply chassis to the panel chassis. This is outside the casing of the power supply. You should now be able to remove the power supply circuit board and its lower chassis.

Repeat steps in reverse order to replace the new power supply and reassemble the unit.